

Online Redox Reactions and Balancing Practice

Steps for Balancing in Acidic Solution:

1. Assign oxidation numbers to determine what is oxidized and what is reduced, if no change in oxidation numbers occurs it is not a redox reaction and you must balance by inspection.
2. Write the oxidation and reduction half-reactions.
3. Balance each half-reaction.
 - a. Balance elements other than H and O.
 - b. Balance O by adding H_2O .
 - c. Balance H by adding H^+ .
 - d. Balance charge by adding electrons.
4. Multiply the half-rxn by integers so that the e^- gained and lost are the same.
5. Add the half-reactions, subtracting things that appear on both sides.
6. Make sure the equation is balanced according to mass and to charge.

Online Activities:

1. Go through and complete the following. You may find it very helpful to use a separate sheet of paper to complete work and your periodic table for help with oxidation numbers.

<http://www.wisc-online.com/Objects/ViewObject.aspx?ID=GCH7804>

2. Now try to balance full equations

<http://www.sciencegeek.net/APchemistry/APtaters/Redox/>

-First Complete "Problem #1 - Redox in Acidic Solution, Step-by-Step"

-Then try problems 2 and 3.